

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/010533 A3

(51) International Patent Classification⁷: **G01N 33/68**

(21) International Application Number:
PCT/IL2004/000699

(22) International Filing Date: 29 July 2004 (29.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/491,237 31 July 2003 (31.07.2003) US

(71) Applicants (for all designated States except US):
PRIOSENSE LTD. [IL/IL]; P.O.Box 12244, 91121
Jerusalem (IL). **HADASIT MEDICAL RESEARCH
SERVICES & DEVELOPMENT LTD.** [IL/IL]; P.O.
Box 12000, 91120 Jerusalem (IL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **GABIZON, Ruth**
[IL/IL]; 56 Bernstein Peretz Street, Ramat Sharet, 96920
Jerusalem (IL).

(74) Agents: **LUZZATTO, Kfir et al.**; P.O. Box 5352, 84152
Beer Sheva (IL).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
10 March 2005

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHODS AND KITS FOR THE DETECTION OF PRION DISEASES

(57) Abstract: The present invention relates to a method for the diagnosis of a neurodegenerative disorder in a mammalian subject. The method of the invention comprises the steps of (a) providing a body fluid sample of said subject; (b) concentrating proteins comprised within said sample by a suitable means; (c) contacting the concentrated sample obtained in step (b) with a sufficient amount of a protein which has a beta-sheet structure, preferably, an IgG light chain, under conditions suitable to allow the formation of aggregates. Which aggregates comprise a protein associated with a neurodegenerative disorder; and (d) measuring aggregate formation by suitable means. Whereby the presence of aggregates in said sample indicates that said subject carries said neurodegenerative disorder. The invention further provides for kits and diagnostic compositions for the detection of a neurodegenerative disorder, particularly, prion diseases.



WO 2005/010533 A3